



Technical Memorandum

Date: 5/9/07
To: Steve Garbaciak – Arcadis BBL
cc: Michael Berkoff, Sam Borries - USEPA
From: Jim Hutchens, Project Manager and Kathy Huibregtse, Project Principal
Project: Kalamazoo River Powerhouse Channel
Subject: Hydrologic Information Request

Mr. Garbaciak,

Based on our conversation yesterday, this memo identifies the information that RMT is requesting to support design of a long term erosion control system for the 12th Street Landfill. We appreciate the previous flow simulation information that you have already provided but, upon further review, have determined that we will need additional data and results for the previously modeled 100 year storm (see list below). Furthermore, since the Record of Decision for the 12th Street landfill specifies installation of erosion protection for a 500 year flood event, we are asking you to provide an estimate of both the cost and time needed for Arcadis BBL to provide comparable data for a new model run that considers that 500 year flood event. We believe that application of the existing model for this area of the river would allow us to complete the needed work at the 12th Street landfill on a timeline that is more consistent with the Time Critical Removal Action tasks being completed for the Former Plainwell Impoundment. However, we understand that staff, work load and schedule limitations may impact your ability to complete this work but would still need to obtain the more detailed 100 year flood data.

100 year flood event (both prism in and prism out)

- Velocity, stage, and shear stresses along the west bank of the Kalamazoo River from below the former Powerhouse to 500 feet downstream of the 12th Street landfill. If available, the results at 100 foot intervals along the bank with velocity and shear stress provided at the toe of the slope, the water surface and ½ the distance between the two.
- Portion of the flow spilling over the spillway, if applicable.

500 year flood event (most critical between prism in and prism out)

- Additional simulation including the same detailed output as above.

We also would welcome a conversation between your staff that performs the modeling effort and our staff to discuss the requested information. Our technical staff would include John Rice from RMT and Martin Lebo from Weyerhaeuser. Once you have had a chance to identify the timeframe required and availability of the requested information, we could set up a call to discuss.



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Again, we appreciate the information previously provided and look forward to continuing the cooperative effort on this project.